

**CPC****COOPERATIVE PATENT CLASSIFICATION****B60Q**

**VEHICLE LIGHTING OR SIGNALLING** (arrangement of signalling or lighting devices, the mounting or supporting thereof for rail vehicles B61D, for cycles B62J, for ships B63B, for aircrafts B64D; lighting in general, lighting devices per se F21, H05B; signalling in general G08; electric switches per se H01H)

**NOTE**

This subclass covers also:

- electric signalling of lighting circuits so far as specially arranged in vehicles;
- arrangements or adaptations of lighting switches or signal-initiating means

Attention is drawn to the Note following the title of class B60

Attention is drawn to the following places :

[B60K 28/00](#) Safety devices, e.g. sleeping driver  
[B60R25](#) Anti theft  
[B62D](#) Driving assistance  
[B62D 15/02](#) Steering aids  
[B60K 31/0008](#) Cruise control  
[F21S 48/00](#) Lighting devices or systems specially adapted for vehicles  
[G01S](#) Infra red night vision  
[G01S 13/931](#) Anti Collision  
[G05D 1/00](#) Automatic pilot  
[G06K 9/00](#) Pattern recognition  
[G06T 3/00](#) Image transformation  
[G06T 5/00](#) Image enhancement  
[G06T 7/00](#) Image analysis  
[G08B 21/00](#) Alarms in general  
[G08G](#) Traffic control  
[G08G 1/16](#) Anti-collision systems  
[H04N](#) Television systems

**WARNING**

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[B60Q 1/128](#) covered by [B60Q 1/124](#)  
[B60Q 1/132](#) covered by [B60Q 1/124](#)  
[B60Q 1/136](#) covered by [B60Q 1/124](#)

**B60Q 1/00**

**Arrangements or adaptations of optical signalling or lighting devices** (for lighting vehicle interior [B60Q 3/00](#); { circuit arrangements for electric light sources in general [H05B 37/00](#)})

**B60Q 1/0005**

- {Devices preventing the lights from becoming dirty or damaged (protecting lighting devices from damage in general [F21V 15/00](#)), e.g. protection grids (fastening of grids or protective cages in general [F21V 17/00](#)), cleaning by air flow (windshield wipers for

cleaning optical devices of vehicles [B60S 1/04](#)}}

- B60Q 1/0011
  - . { with light guides for distributing the light between several lighting or signalling devices (using light guides inside a single device [F21S 8/00](#), light guides per se [G02B 6/0001](#))}
- B60Q 1/0017
  - . { Devices integrating an element dedicated to another function}
- B60Q 1/0023
  - .. { the element being a sensor, e.g. distance sensor, camera}
- B60Q 1/0029
  - . { Spatial arrangement}
- B60Q 1/0035
  - .. { relative to the vehicle}
- B60Q 1/0041
  - .. { of several lamps in relation to each other}
- B60Q 1/0047
  - ... { Signalling unit mounted on a headlamp unit}
- B60Q 1/0052
  - ... { concentric}
- B60Q 1/0058
  - ... { Stacked, i.e. one lamp located behind the other in the optical axis direction}
- B60Q 1/0064
  - . { with provision for maintenance, e.g. changing the light bulb (swivel arrangements [B60Q 1/0425](#); fastening of covers [F21V 17/00M](#); changing light sources in general [F21V 19/04](#); fastening of light sources or lamp holders [F21V 19/00M](#), [F21V 19/00Q](#))}
- B60Q 1/007
  - .. { via a removable cap (fastening of the light source by a cap holding the light source [F21V 19/00M](#), [F21V 19/00Q](#))}
- B60Q 1/0076
  - . { Switches therefor ([B60Q 1/1446](#), [B60Q 1/343](#), [B60Q 1/40](#) take precedence, arrangements or fitting of control knobs on dashboard [B60K 37/06](#))}
- B60Q 1/0082
  - .. {mounted on the steering wheel}
- B60Q 1/0088
  - . { Details of electrical connections ([B60Q 1/305](#) takes precedence; electrical connectors in general [H01R](#); electrical connection of the light source itself [F21V 19/00M2](#), [F21V 19/00Q2](#))}
- B60Q 1/0094
  - .. { Arrangement of electronic circuits separated from the light source (e.g. mounting of housings for starter circuits for discharge lamps, circuits per se [H05B](#), arrangements being part of the light source holder [F21V 17/00M2](#), [F21V 17/00Q2](#), [F21V 19/00M2](#), [F21V 19/00Q2](#))}
- B60Q 1/02
  - . the devices being primarily intended to illuminate the way ahead or to illuminate other areas of way or environments
- B60Q 1/04
  - .. the devices being headlights
- B60Q 1/0408
  - ... { built into the vehicle body, e.g. details concerning the mounting of the headlamps on the vehicle body ([B60Q 1/0491](#), [B60Q 1/05](#) take precedence, integrated front ends [B62D 25/00](#))}
- B60Q 1/0416
  - .... { the housing being mounted on the vehicle body using rails}
- B60Q 1/0425
  - .... { the housing being swivel mounted on the vehicle body }
- B60Q 1/0433
  - .... { the housing being fastened onto the vehicle body using screws (adjustable headlamp by rotation of a screw [B60Q 1/0683](#))}
- B60Q 1/0441
  - .... { the housing being fastened onto the vehicle body using means other than screws}
- B60Q 1/045
  - .... { with provision for adjusting the alignment of the headlamp housing with respect to the vehicle body (adjusting the light beam [B60Q 1/06](#))}
- B60Q 1/0458
  - .... { the front cover being directly mounted onto the vehicle body (mounting the

		cover on the housing <b>F21V 17/00M</b> )}
B60Q 1/0466	....	{ with arrangement for sealing the headlamp with respect to the vehicle body, or for concealing gaps between the headlamp and the vehicle body}
B60Q 1/0475	....	{ with provisions for pre-mounting, for temporary holding the headlamp before or during final mounting}
B60Q 1/0483	...	{mounted on a bracket, e.g. details concerning the mounting of the lamps on the vehicle body}
B60Q 1/0491	...	{Shock absorbing devices therefor ( <b>resilient mounting of lighting devices in general F21V 15/04; shock absorbing devices in general F16F 15/04</b> )}
B60Q 1/05	...	Retractable
B60Q 1/06	...	adjustable, e.g. remotely controlled from inside vehicle ( <b>B60Q 1/05 takes precedence</b> ; { changing the characteristics or distribution of the light by adjustment of parts, e.g. reflectors, light sources, lenses, screens <b>F21V 14/00</b> })
B60Q 1/064	....	by fluid means
B60Q 1/068	....	by mechanical means
B60Q 1/0683	.....	{Adjustable by rotation of a screw}
B60Q 1/0686	.....	{using a position indicator mounted on the headlight and permanently attached thereto}
B60Q 1/072	.....	comprising a flexible element, e.g. chain
B60Q 1/076	....	by electrical means { <b>including means to transmit the movements, e.g. shafts or joints</b> }
B60Q 1/08	....	automatically
B60Q 1/085	.....	[due to special conditions, e.g. adverse weather, type of road, badly illuminated road signs or potential dangers ( <b>B60Q 1/10, B60Q 1/12, B60Q 1/1423 take precedence</b> )]
B60Q 1/10	.....	due to vehicle inclination, e.g. due to load distribution
B60Q 1/105	.....	by fluid means
B60Q 1/11	.....	by mechanical means
B60Q 1/115	.....	by electric means {( <b>details of the electric drive components, e.g. motors, shafts, ball joints B60Q 1/076</b> )}
B60Q 1/12	.....	due to steering position
B60Q 1/121	.....	{with fluid actuating means}
B60Q 1/122	.....	{ with electrical actuating means ( <b>details of the electric drive components, e.g. motors, shafts, ball joints B60Q 1/076</b> )}
B60Q 1/124	.....	by mechanical means
B60Q 1/14	...	having dimming means {( <b>lighting power supply circuits in general H05B</b> )}
B60Q 1/1407	....	{General lighting circuits comprising dimming circuits ( <b>dimming circuits per se B60Q 1/1415</b> )}
B60Q 1/1415	....	{Dimming circuits}
B60Q 1/1423	.....	{ Automatic dimming circuits, i.e. switching between high beam and low beam due to change of ambient light or light level in road traffic}
B60Q 1/143	.....	{ combined with another condition, e.g. using vehicle recognition from camera images or activation of wipers}
B60Q 1/1438	....	{Actuating means for dimming masks or screens ( <b>adjustable screens per se F21V 11/04</b> )}
B60Q 1/1446	....	{controlled by mechanically actuated switches}
B60Q 1/1453	.....	{Hand actuated switches}

B60Q 1/1461	.....	{Multifunction switches for dimming headlights and controlling additional devices, e.g. for controlling direction indicating lights}
B60Q 1/1469	.....	{controlled by or attached to a single lever, e.g. steering column stalk switches}
B60Q 1/1476	.....	{comprising switch controlling means located near the free end of the lever, e.g. press buttons, rotatable rings}
B60Q 1/1484	.....	{mounted on the steering wheel}
B60Q 1/1492	.....	{Foot actuated switches}
B60Q 1/16	...	illuminating the way asymmetrically
B60Q 1/18	...	being additional front lights {(bracket mounted headlights <a href="#">B60Q 1/0483</a> )}
B60Q 1/20	....	Fog lights {(single shaped beam lighting devices specially adapted for vehicles for penetrating fog or preventing glare <a href="#">F21S 8/12</a> )}
B60Q 1/22	..	for reverse drive
B60Q 1/24	..	for lighting other areas than only the way ahead
B60Q 1/245	...	{using spotlights adjustable from within the vehicle (adjustable headlights <a href="#">B60Q 1/06</a> )}
B60Q 1/26	.	the devices being primarily intended to indicate the vehicle, or parts thereof, or to give signals, to other traffic {(such devices mounted on the vehicle rear part <a href="#">F21S 48/20</a> ; means for the lighting or illuminating of aerials, e.g. for purpose of warning <a href="#">H01Q 1/06</a> )}
B60Q 1/2603	..	{Attenuation of the light according to ambient luminosity, e.g. for braking or direction indicating lamps}
B60Q 1/2607	..	{comprising at least two indicating lamps}
B60Q 1/2611	..	{ Indicating devices mounted on the roof of the vehicle (flashing light sources in general <a href="#">F21S 10/06</a> )}
B60Q 1/2615	..	{ mounted on the vehicle body, e.g. with magnets}
B60Q 1/2619	..	{ built in the vehicle body}
B60Q 1/2623	...	{ Details of the fastening means}
B60Q 1/2626	....	{ Screw-nut fasteners}
B60Q 1/263	....	{ Snap-in fasteners}
B60Q 1/2634	....	{ Fastening by rotating the device housing about its longitudinal axis, e.g. bayonet fasteners}
B60Q 1/2638	...	{ Positioning the device housing by indexing means separate from the fastening means, e.g. pins, rails}
B60Q 1/2642	...	{ with provision for adjusting the alignment of the device housing with respect to the vehicle body}
B60Q 1/2646	....	{ using dowels or expansible elements}
B60Q 1/2649	...	{ with provision for pre-mounting or temporary holding the device before or during final mounting}
B60Q 1/2653	...	{ with arrangement for sealing the device with respect to the vehicle body, or for concealing gaps between the device and the vehicle body}
B60Q 1/2657	..	{mounted on a shaft, e.g. telescopic (lamps on antennas or powerlines <a href="#">F21S 8/00Q8</a> )}
B60Q 1/2661	..	{ mounted on parts having other functions (on wheels <a href="#">B60Q 1/323</a> )}
B60Q 1/2665	...	{ on rear-view mirrors (lighting devices for vehicle interior on or for rear-view mirrors <a href="#">B60Q 3/023</a> ; adaptations or arrangements of mirrors for use on cycles <a href="#">B62J 29/00</a> ; rear-view mirror arrangements <a href="#">B60R 1/02</a> ; mirror assemblies

		combined with lamps <a href="#">B60R 1/1207</a> }}
<a href="#">B60Q 1/2669</a>	...	{ on door or boot handles (lighting devices for vehicle interior on door handles <a href="#">B60Q 3/0233</a> ; vehicle doors <a href="#">B60J 5/00</a> illuminating devices on or for locks or keys <a href="#">E05B 17/10</a> ; Keyhole finders <a href="#">E05B 15/08</a> )}
<a href="#">B60Q 1/2673</a>	...	{ on parts worn by the driver, e.g. clothes (professional or sporting clothes with reflecting or luminous means <a href="#">A41D 13/01</a> ), gloves (protective gloves with reflecting or luminous means <a href="#">A41D 19/0157</a> ), or bags, specially adapted to provide auxiliary vehicle signalling}
<a href="#">B60Q 1/2676</a>	....	{ Helmets (helmets in general <a href="#">A42B 3/00</a> ; helmets with signalling or lighting devices <a href="#">A42B 3/0433</a> )}
<a href="#">B60Q 1/268</a>	...	{ on windscreens or windows ( <a href="#">B60Q 1/302</a> takes precedence; windows or windscreens in general <a href="#">B60J 1/00</a> ; lighting devices for vehicle interior on or for windows <a href="#">B60Q 3/0213</a> )}
<a href="#">B60Q 1/2684</a>	...	{ on wipers or windscreen washers (vehicle wipers <a href="#">B60S 1/04</a> ; windscreen washers <a href="#">B60S 1/46</a> )}
<a href="#">B60Q 1/2688</a>	...	{ on exhaust pipes (exhaust or silencing apparatuses in general <a href="#">F01N</a> )}
<a href="#">B60Q 1/2692</a>	..	{ retractable lights (retractable headlights <a href="#">B60Q 1/05</a> )}
<a href="#">B60Q 1/2696</a>	..	{ Mounting of devices using LEDs (fastening of LEDs on printed circuits <a href="#">F21V 19/001</a> )}
<a href="#">B60Q 1/28</a>	..	for indicating front of vehicle
<a href="#">B60Q 1/30</a>	..	for indicating rear of vehicle, e.g. by means of reflecting surfaces
<a href="#">B60Q 1/302</a>	...	{ mounted in the vicinity, e.g. in the middle, of a rear window}
<a href="#">B60Q 1/305</a>	...	{ Indicating devices for towed vehicles}
<a href="#">B60Q 1/307</a>	...	{ mounted on loading platforms (warning signals on loading platforms <a href="#">B60P 1/4464</a> )}
<a href="#">B60Q 1/32</a>	..	for indicating vehicle sides, {e.g. clearance lights}
<a href="#">B60Q 1/323</a>	...	{ on or for doors or running boards, e.g. to facilitate access to the vehicle (illumination of door locks <a href="#">E05B 17/10</a> )}
<a href="#">B60Q 1/326</a>	...	{ on or for wheels}
<a href="#">B60Q 1/34</a>	..	for indicating change of drive direction ( <a href="#">B60Q 1/22</a> takes precedence)
<a href="#">B60Q 1/343</a>	...	{ Manually actuated switching arrangements therefor (Hand actuated multifunction switches <a href="#">B60Q 1/1461</a> ; <a href="#">B60Q 1/40</a> takes precedence)}
<a href="#">B60Q 1/346</a>	...	with automatic actuation
<a href="#">B60Q 1/36</a>	...	using movable members, e.g. arms with built-in flashing lamps
<a href="#">B60Q 1/38</a>	...	using immovably-mounted light sources, e.g. fixed flashing lamps
<a href="#">B60Q 1/382</a>	....	{ Electronic temporisation with semiconductor amplification}
<a href="#">B60Q 1/385</a>	....	{ Electronic temporisation with relay amplification}
<a href="#">B60Q 1/387</a>	....	{ Mechanical temporisation}
<a href="#">B60Q 1/40</a>	...	having {mechanical, electric or electronic} automatic return to inoperative position
<a href="#">B60Q 1/42</a>	....	{ having mechanical automatic return to inoperative position} due to steering-wheel position, {e.g. with roller wheel control}
<a href="#">B60Q 1/425</a>	.....	{ using a latching element for resetting a switching element (Hand actuated multifunction switches <a href="#">B60Q 1/1461</a> )}
<a href="#">B60Q 1/44</a>	..	for indicating braking action or preparation for braking, { e.g. by detection of the foot approaching the brake pedal}

- B60Q 1/441 . . . {Electric switches operable by the driver's pedals ([electric switches in general H01H](#))}
- B60Q 1/442 . . . {visible on the front side of the vehicle, e.g. for pedestrians}
- B60Q 1/444 . . . { with indication of the braking strength or speed changes, e.g. by changing shape or intensity of the indication ([B60Q 1/1407](#), [B60Q 1/442](#), [B60Q 1/447](#) take precedence)}
- B60Q 1/445 . . . {controlled by inertial devices}
- B60Q 1/447 . . . . {with indication of the braking strength or speed changes, e.g. by changing the shape or intensity of the indication}
- B60Q 1/448 . . . {specially adapted for vehicles with ABS}
- B60Q 1/46 . . for giving flashing caution signals during drive, other than signalling change of direction, e.g. flashing the headlights, { [hazard lights](#) ([flashing lights in general F21S 10/06](#))}
- B60Q 1/48 . . for parking purposes {([warning arrangements in garages E04H 6/42](#))}
- B60Q 1/482 . . . { for locating vehicle in parking lot}
- B60Q 1/484 . . . { for showing outline of vehicle}
- B60Q 1/486 . . . { for indicating that vehicle is in a parked state}
- B60Q 1/488 . . . { for indicating intention to park}
- B60Q 1/50 . . for indicating other intentions or conditions, e.g. request for waiting or overtaking
- B60Q 1/503 . . . {using luminous text displays}
- B60Q 1/506 . . . { for signaling silent vehicles, e.g. for warning that a hybrid or electric vehicle is approaching}
- B60Q 1/52 . . . for indicating emergencies {([braking indicating devices B60Q 1/44](#), [portable emergency signal devices B60Q 7/00](#))}
- B60Q 1/525 . . . . { indicating risk of collision between vehicles or with pedestrians ([using video cameras B62D 1/00](#); [Radars designed for anti-collision purposes between land vehicles or between land vehicle and fixed obstacles G01S 13/931](#); [Control of position or course in two dimensions for land vehicles G05D 1/021](#); [Anti-collision systems for road vehicles G08G 1/16](#))}
- B60Q 1/54 . . . for indicating speed {[outside of the vehicle](#) ([automatic vehicle speed controlling fittings including unintended speed signalling devices to the vehicle driver B60K 31/18](#))}
- B60Q 1/56 . . for illuminating registrations or the like, { e.g. for [licence plates](#) ([license plates B60R 13/10](#))}

**B60Q 3/00****Arrangements or adaptations of lighting devices for vehicle interior**

- B60Q 3/001 . { manually adjustable, e.g. colours, orientation, intensity ([automatically adjusted B60Q 3/0293](#))}
- B60Q 3/002 . { using light guides}
- B60Q 3/004 . . { inside a single lighting device}
- B60Q 3/005 . . { to distribute light between several lighting devices}
- B60Q 3/007 . { with means for electrical plugging into vehicle, e.g. in cigarette lighter, in special plug ([arrangement of electrically heated lighters B60N 3/14](#)) } ]
- B60Q 3/008 . { using UV light}



- B60Q 3/02 . for lighting passenger or driving compartment
- B60Q 3/0203 . . {Details of mounting onto vehicle interior, e.g. onto ceiling, floor (mounting of lighting devices [F21V 21/04](#), vehicle liners [B60R 13/02](#), connectors [H01R 33/00](#))}
- B60Q 3/0206 . . . {Modular mounting systems, e.g. using tracks, rails, multiple plugs (for lighting devices in general [F21V 21/005](#))}
- B60Q 3/0209 . . {mounted onto or for lighting specific vehicle fittings}
- B60Q 3/0213 . . . { on or for sun roofs, or windows (windows per se [B60J 1/00](#), sun roofs per se [B60J 7/00](#))}
- B60Q 3/0216 . . . { on or for doors or steps (vehicle doors [B60J 5/00](#))}
- B60Q 3/022 . . . { on or for small compartments, e.g. glove compartment (stowing small appliances in vehicles [B60R 7/00](#))}
- B60Q 3/0223 . . . { on or for seats, arm rests or head rests (vehicle seats per se [B60N 2/00](#))}
- B60Q 3/0226 . . . { on or for sun visors (sun visors per se [B60J 3/0204](#))}
- B60Q 3/023 . . . { on or for rear view mirrors (rear view mirror per se [B60R 1/00](#))}
- B60Q 3/0233 . . . { on or for door handles or hand grabs (door handles per se [B60N 3/02](#))}
- B60Q 3/0236 . . . { on or for smoking related tools, e.g. cigarette lighters, ashtrays (cigarette lighters [B60N 3/14](#), ashtrays [B60N 3/083](#))}
- B60Q 3/024 . . . { on or for steering wheel or gear shift (steering wheels [B62D 1/04](#), gear shifts [B60K20](#))}
- B60Q 3/0243 . . . { others, e.g. cup holders, ignition locks (lighting for door locks [E05B 15/08](#), [E05B 17/10](#))}
- B60Q 3/0246 . . {for mass transit vehicles ([B60Q 3/0209](#), [B60Q 3/04](#) take precedence, illumination of sides, boards or panels in general [G09F 13](#))}
- B60Q 3/025 . . . {Overall lighting}
- B60Q 3/0253 . . . {Specific lighting, e.g. reading lamps}
- B60Q 3/0256 . . . {Emergency lighting, e.g. escape routes (illumination of emergency signs [G09F 13](#))}
- B60Q 3/0259 . . . {Circuits or control therefore}
- B60Q 3/0263 . . {Mounted on a shaft (for lighting devices in general [F21V 21/26](#) and [F21V 21/32](#))}
- B60Q 3/0266 . . {Retractable, concealable lamps}
- B60Q 3/0269 . . {with provision for being portable (portable lighting devices in general [F21L](#))}
- B60Q 3/0273 . . {Specifically arranged for convertibles}
- B60Q 3/0276 . . {additional interior lighting specifically arranged to prevent conductor dazzling, e.g. by constricting the conductor's pupil}
- B60Q 3/0279 . . {overall lighting alone or in combination with specific lighting, e.g. arrangement of room lamps, combination of room lamps with reading lamps (fastening of components within lighting devices [F21V 17/00](#), [F21V 19/00](#) and [F21V 23/00](#))}
- B60Q 3/0283 . . . {using lighting panels or mats, e.g. electro-luminescent panels, LED mats (electroluminescent light sources [H05B 33/00](#))}
- B60Q 3/0286 . . {Specific lighting, e.g. reading lamps, directional or focussed lighting towards small surfaces, e.g. using blends (fastening of components within lighting devices [F21V 17/00](#), [F21V 19/00](#) and [F21V 23/00](#))}
- B60Q 3/0289 . . {Strip lighting, edge marking, e.g. using elongated light sources along or around parts to be illuminated}
- B60Q 3/0293 . . {circuits or control for interior lights (circuits for light sources in general [H05B 37/00](#) and [H05B 39/00](#), for electric vehicles [B60L 1/14](#), electronic switching [H03K 17/00](#), remote control [H04Q 9/00](#))}

- B60Q 3/0296 . . {Switches specifically designed for interior lights, e.g. switching by tilting the lens (mechanical switches in general [H01H](#), electronic switches in general [H03K 17/00](#), arrangement of instruments in vehicles in general [B60K 35/00](#) and [B60K 37/00](#))}
- B60Q 3/04 . . for dashboard {(lighting of individual instruments [G01D](#), association of lighting devices with LCDs [G02F 1/1335](#))}
- B60Q 3/042 . . . { lighting onto the surface to be illuminated}
- B60Q 3/044 . . . { lighting through the surface to be illuminated}
- B60Q 3/046 . . . { Circuits or control therefore (for electric vehicles [B60L 1/14](#); electronic switching [H03K 17/00](#); remote control [H04Q 9/00](#); circuits for light sources in general [H05B 37/00](#), [H05B 39/00](#))}
- B60Q 3/048 . . . . { for varying the light intensity (controlling the light intensity of displays [G09G](#); circuits for controlling the light intensity emitted by particular light sources [H05B](#))}
- B60Q 3/06 . for lighting compartments other than passenger or driving space, e.g. luggage or engine compartment
- B60Q 3/065 . . { with provision for being portable (portable lighting devices in general [F21L](#))}
- B60Q 5/00** **Arrangements or adaptations of acoustic signal devices** {(sound producing devices in general [G10K](#))}
- B60Q 5/001 . {Switches therefor}
- B60Q 5/003 . . {mounted on the steering wheel}
- B60Q 5/005 . { automatically actuated}
- B60Q 5/006 . . { indicating risk of collision between vehicles or with pedestrians (using video cameras [B62D 1/00](#); Radars designed for anti-collision purposes between land vehicles or between land vehicle and fixed obstacles [G01S 13/931](#); Control of position or course in two dimensions for land vehicles [G05D 1/021](#); Anti-collision systems for road vehicles [G08G 1/16](#))}
- B60Q 5/008 . . [N : for signaling silent vehicles, e.g. for warning that a hybrid or electric vehicle is approaching]
- B60Q 7/00** **Arrangement or adaptation of portable emergency signal devices on {board} vehicles** {to be placed on roadways or vehicles, e.g. warning triangles}, (arrangements for enforcing caution on roads, e.g. marker posts, [E01F 9/00](#); signs [G09F](#), e.g. reflecting warning triangles [G09F 13/16](#))
- B60Q 7/005 . {Devices without lamps}
- B60Q 7/02 . to be attached to overhanging loads or extending parts of vehicle
- B60Q 9/00** **Arrangements or adaptations of signal devices not provided for in one of the preceding main groups, {e.g. haptic signalling}**
- B60Q 9/001 . {Alarm devices when the motor is stopped and the lights are on}
- B60Q 9/002 . { for parking purposes, e.g. for warning the driver that his vehicle has contacted or is about to contact an obstacle (warning arrangements in garages [E04H 6/42](#))}
- B60Q 9/003 . . { using physical contactors, e.g. arms that trigger alarm upon contact with obstacle}



B60Q 9/004	.. { using wave sensors (radar designed for anti-collision purposes between land vehicles or between land vehicles and fixed obstacles <a href="#">G01S 13/931</a> )}
B60Q 9/005	... { using a video camera}
B60Q 9/006	... { using a distance sensor}
B60Q 9/007	.. { providing information about the distance to an obstacle, e.g. varying sound}
B60Q 9/008	. { for anti-collision purposes}
<b>B60Q 11/00</b>	<b>Arrangements of monitoring devices for devices provided for in groups <a href="#">B60Q 1/00</a> to <a href="#">B60Q 9/00</a>{(testing of electric installations on road vehicle <a href="#">G01R 31/00</a>)}</b>
B60Q 11/002	. {Emergency driving lights in the event of failure of the principal lighting circuit}
B60Q 11/005	. {for lighting devices, e.g. indicating if lamps are burning or not}
B60Q 11/007	.. {the lighting devices indicating change of drive direction (change of drive direction indicators <a href="#">B60Q 1/34</a> )}
<b>B60Q 2200/00</b>	<b>Special features or arrangements of vehicle headlamps</b>
B60Q 2200/30	. Special arrangements for adjusting headlamps, e.g. means for transmitting the movements for adjusting the lamps
B60Q 2200/32	.. Ball-joints
B60Q 2200/34	.. Deformable parts, i.e. the adjustment is performed by bending or stretching a part
B60Q 2200/36	.. Conjoint adjustments, i.e. a mechanical link allows conjoint adjustment of several units
B60Q 2200/38	.. Automatic calibration of motor-driven means for adjusting headlamps, i.e. when switching on the headlamps, not during mounting at factories
<b>B60Q 2300/00</b>	<b>Indexing codes for automatically adjustable headlamps or automatically dimmable headlamps</b>
B60Q 2300/05	. Special features for controlling or switching of the light beam
B60Q 2300/052	.. Switching delay, i.e. the beam is not switched or changed instantaneously upon occurrence of a condition change
B60Q 2300/054	.. Variable non-standard intensity, i.e. emission of various beam intensities different from standard intensities, e.g. continuous or stepped transitions of intensity
B60Q 2300/056	.. Special anti-blinding beams, e.g. a standard beam is chopped or moved in order not to blind
B60Q 2300/10	. Indexing codes relating to particular vehicle conditions
B60Q 2300/11	.. Linear movements of the vehicle
B60Q 2300/112	... Vehicle speed
B60Q 2300/114	... Vehicle acceleration or deceleration

B60Q 2300/116	...	Vehicle at a stop
B60Q 2300/12	..	Steering parameters
B60Q 2300/122	...	Steering angle
B60Q 2300/124	...	Steering speed
B60Q 2300/126	...	Hysteresis behavior based on steering
B60Q 2300/128	...	Steering dead zone
B60Q 2300/13	..	Attitude of the vehicle body
B60Q 2300/132	...	Pitch
B60Q 2300/134	...	Yaw
B60Q 2300/136	...	Roll
B60Q 2300/14	..	Other vehicle conditions
B60Q 2300/142	...	Turn signal actuation
B60Q 2300/144	...	Rearward ratio actuation
B60Q 2300/146	...	Abnormalities, e.g. fail-safe
B60Q 2300/20	.	Indexing codes relating to the driver or the passengers
B60Q 2300/21	..	Manual control
B60Q 2300/22	..	Seat occupation
B60Q 2300/23	..	Driver's line of sight
B60Q 2300/30	.	Indexing codes relating to the vehicle environment
B60Q 2300/305	..	Calendar date or clock time
B60Q 2300/31	..	Atmospheric conditions
B60Q 2300/312	...	Adverse weather
B60Q 2300/314	...	Ambient light
B60Q 2300/32	..	Road surface or travel path
B60Q 2300/322	...	Road curvature
B60Q 2300/324	...	Road inclination, e.g. uphill or downhill
B60Q 2300/33	..	Driving situation
B60Q 2300/331	...	characterised by the driving side, e.g. on the left or right hand side
B60Q 2300/332	...	on city roads
B60Q 2300/3321	....	Detection of streetlights
B60Q 2300/333	...	on suburban or country roads
B60Q 2300/334	...	on motorways
B60Q 2300/335	...	Number or size of road lanes
B60Q 2300/336	...	Crossings
B60Q 2300/337	...	Tunnels or bridges
B60Q 2300/338	...	Overtaking
B60Q 2300/40	.	Indexing codes relating to other road users or special conditions
B60Q 2300/41	..	preceding vehicle
B60Q 2300/42	..	oncoming vehicle
B60Q 2300/43	..	following vehicle

B60Q 2300/45	. .	Special conditions, e.g. pedestrians, road signs or potential dangers
B60Q 2300/47	. .	Direct command from other road users, i.e. the command for switching or changing the beam is sent by other vehicles or road devices
<b>B60Q 2400/00</b>		<b>Special features or arrangements of exterior signal lamps for vehicles</b>
B60Q 2400/10	.	Electroluminescent surfaces, i.e. signalling by way of electroluminescent strips or panels
B60Q 2400/20	.	Multi-color single source or LED matrix, e.g. yellow blinker and red brake lamp generated by single lamp
B60Q 2400/30	.	Daytime running lights (DRL), e.g. circuits or arrangements therefor
B60Q 2400/40	.	Welcome lights, i.e. specific or existing exterior lamps to assist leaving or approaching the vehicle
B60Q 2400/50	.	Projected signs, i.e. symbol or information is projected onto the road
<b>B60Q 2500/00</b>		<b>Special features or arrangements of vehicle interior lamps</b>
B60Q 2500/10	.	embedded in interior trim, e.g. integrated in headliner layers
B60Q 2500/20	.	associated with air conditioning arrangements
<b>B60Q 2900/00</b>		<b>Features of lamps not covered by other groups in B60Q</b>
B60Q 2900/10	.	Retrofit arrangements
B60Q 2900/20	.	Arrangements for easy recycling, e.g. for easy dismantling or use of special materials
B60Q 2900/30	.	Lamps commanded by wireless transmissions